

Converting Colors

XYZ(46.8100, 32.3999, 3.7867)

Have a look what the booklet for
XYZ(46.8100, 32.3999, 3.7867)
contains.

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Color

**XYZ(46.8159, 32.4119,
3.7886)**

Conversions

Conversions Part 1

Format	Color
Hex	FF6E00
RGB	255, 110, 0
RGB Percent	100%, 43%, 0%
CMY	0.0000, 0.5686, 1.0000
CMYK	0.00, 0.57, 1.00, 0.00
HSL	26°, 100%, 50%
HSV	26°, 100%, 100%
XYZ	46.8159, 32.4119, 3.7886
YIQ	140.8150, 121.7300, -3.4700

Conversions

Conversions Part 2

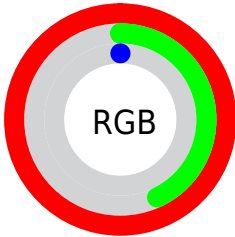
Format	Color
R_{YB}	255, 193, 0
Decimal	16739840
CIE _{Lab}	63.68, 51.41, 72.09
CIE _{LCh}	64, 88.545, 54.503
Yxy	32.4119, 0.5639, 0.3904
Android (android.graphics.Color)	4294929920 (0xFFFF6E00)
YUV	140.8150, -69.4218, 100.1402
Hunter-Lab	56.9315, 47.1542, 35.9065

Details

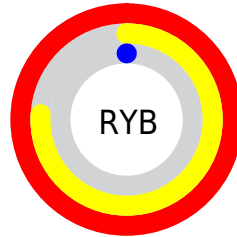
The XYZ color **46.8159, 32.4119, 3.7886** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **28.1745, 27.4692, 98.4240**, and the grayscale version is **25.4765, 26.8033, 29.1888**.

A 20% lighter version of the original color is **55.8006, 48.6125, 12.2365**, and **22.6494, 13.7755, 1.4652** is the 20% darker color. If you saturate the color by 10%, you get **46.8162, 32.4130, 3.7889**, and if you desaturate by 10%, it is **48.6922, 35.8754, 5.3068**.

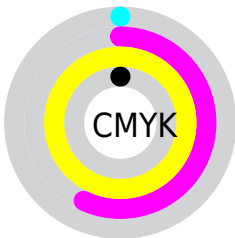
Distribution



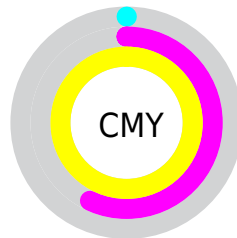
- Red (100%)
- Green (43%)
- Blue (0%)



- Red (100%)
- Yellow (76%)
- Blue (0%)



- Cyan (0%)
- Magenta (57%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (57%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.8159, 32.4119, 3.7886 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 46.8159, 32.4119, 3.7886 by changing the saturation by 10% instead.


 46.8159, 32.4119,
3.7886


 46.8159, 32.4119,
3.7886


364.7404,
312.9913, 145.8459


 33.0975, 21.6763,
1.5101


 84.6592, 63.4563,
13.5192


 22.3607, 13.6192,
0.2254


 109.5147, 84.5338,
21.8084


 14.2403, 7.8563,
0.0000


 138.8134,
109.8275, 32.9382

 8.3708, 4.0032,
0.0000

 172.9205,
139.7217, 47.3272

 4.3869, 1.6753,
0.0000

 212.2014,
174.6007, 65.3939


 1.9233, 0.4076,
0.0000

 257.0214,


 0.5903, 0.0000,


214.8491, 87.5569


0.0000


 307.7460,
260.8512, 114.2347


 0.0000, 0.0000,
0.0000


 46.8159, 32.4119,
3.7886


 46.8159, 32.4119,
3.7886


 46.8162, 32.4130,
3.7889

 48.6922, 35.8754,
5.3068

 51.0711, 39.9664,
8.1551

 54.0362, 44.7376,
12.7171

 57.6420, 50.2269,
19.2284

 61.9351, 56.4688,
27.8869

66.9572, 63.4947,
38.8658

72.7460, 71.3340,
52.3204

79.3366, 80.0143,
68.3925

86.7614, 89.5618,
87.2130

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



57.9708, 32.4119, 13.8811



46.8159, 32.4119, 3.7886



33.1457, 32.4119, 1.6253

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



46.8159, 32.4119, 3.7886



12.6553, 32.4119, 29.1499



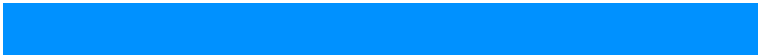
41.7827, 32.4119, 140.9160

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



46.8159, 32.4119, 3.7886



28.1745, 27.4692, 98.4240

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



28.5801, 32.4119, 156.1096



46.8159, 32.4119, 3.7886



13.8143, 32.4119, 71.8312

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



46.8159, 32.4119, 3.7886



15.1950, 32.4119, 8.6473



18.9393, 32.4119, 125.0966



54.5612, 32.4119, 91.5915

Rectangle

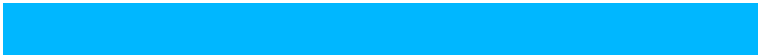
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.8159, 32.4119, 3.7886



25.2165, 32.4119, 1.8763



18.9393, 32.4119, 125.0966



37.1670, 32.4119, 151.1490

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



46.8166, 32.4137, 3.7891



72.7454, 71.3329, 52.3177



46.6447, 23.4219, 30.3924



15.0276, 14.5391, 9.9174



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46.8166, 32.4137, 3.7891



46.8167, 32.4134, 3.7889



70.5912, 79.9629, 11.7140



18.6538, 19.2758, 18.8818



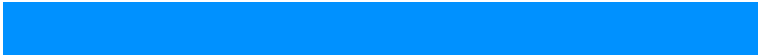
24.6043, 17.2199, 2.0270



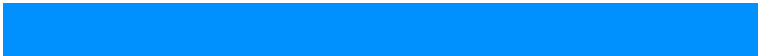
2.5017, 1.8887, 0.2327

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



28.1745, 27.4692, 98.4240



28.1743, 27.4687, 98.4248



18.3228, 7.7657, 95.1400



17.8603, 19.0923, 22.9938



14.8730, 14.6555, 51.4795



1.5567, 1.6442, 5.0486

Previews

White Background



This preview shows how the XYZ color 46.8159, 32.4119, 3.7886 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 46.8159, 32.4119, 3.7886 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 46.8159, 32.4119, 3.7886

Background



This preview shows how black text looks on a background with the XYZ color 46.8159, 32.4119, 3.7886.



This preview shows how white text looks on a background with the XYZ color 46.8159, 32.4119,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

46.8159, 32.4119, 3.7886

Protanopia

29.3418, 32.5073, 5.5922

Deuteranopia

32.9394, 32.4695, 4.5312



Tritanopia

49.1608, 32.5108, 18.7231

Trichromacy



Original Color

46.8159, 32.4119, 3.7886

Protanomaly

33.9474, 31.1962, 4.6842

Deuteranomaly

37.1404, 31.8019, 4.1809

Tritanomaly

47.6350, 32.2303, 9.6717

Monochromacy



Original Color

46.8159, 32.4119, 3.7886

Achromatopsia

25.3171, 26.6356, 29.0061

Achromatomaly

29.1195, 26.6485, 13.2818

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.8159, 32.4119, 3.7886 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(255, 110, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 110, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 110, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 110, 0) }
```

Border

The CSS property to change the border of an element to XYZ 46.8159, 32.4119, 3.7886 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 110, 0) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(255, 110, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(255, 110, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 110, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 110, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 110,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 46.8159, 32.4119, 3.7886 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 110, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
110, 0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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